



**Cisco**

**642-415**

*Unified Communications Architecture and Design*

**QUESTION: 52**

Ajax has decided to open regional sales offices to put their sales staff closer to their customers. The new offices are located in Oakland, Denver, Chicago, and New York. The Northwest and Southeast regional sales offices are located in the Redmond and Atlanta

facilities. The sales offices will connect to the Ajax campus via a Frame Relay network. Each site will have a PSTN gateway for local and emergency calls. All calls to and from the regional offices as well as long distance calls should use the IP WAN as much as possible. Call processing and voice mail will remain centralized in Atlanta. H.323 gateways will be deployed at the remote sites for PSTN access. The Ajax central campus and regional sales offices will use the G.711 codec locally. The G.729 codec will be used when calls cross the WAN, and cRTP will be implemented on each link. The voice-mail system only supports G.711. With the addition of the remote sales offices in a centralized processing deployment model, which statement is true regarding the best practices use of a gatekeeper?

- A. One may be used for CAC.
- B. One could be used for address resolution.
- C. One may be deployed for both OAO and address resolution.
- D. A gatekeeper is not applicable in this situation.

**Answer: D**

**QUESTION: 53**

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- A. The only location that will need DSP resources is the central campus.
- B. DSP resources will only be required at the regional sales offices to convert G.711 to G.729 for WAN access.
- C. DSP resources will be required at the central site to support transcoding for the voice-mail system, and at all sites to support conferencing.
- D. DSP resources will be required at the central site to support conferencing, and at the remote sites to support transcoding for the voice-mail system.

**Answer: C**

**QUESTION: 54**

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customers. The new offices are located in Oakland, Denver, Chicago, and New York. The Northwest and Southeast regional sales offices are located in the Redmond and Atlanta facilities. The sales offices will connect to the Ajax campus via a Frame Relay network. Each site will have a PSTN gateway for local and emergency calls. All calls to and from the regional offices as well as long distance calls should use the IP WAN as much as possible. Call processing and voice mail will remain centralized in Atlanta. H.323 gateways will be deployed at the remote sites for PSTN access. The Ajax central campus and regional sales offices will use the G.711 codec locally. The G.729 codec will be used when calls cross the WAN, and cRTP will be implemented on each link. The voice-mail system only supports G.711. The final phase of the conversion to Unified Communications will be the migration to a Cisco Unity solution. Prior to the migration, the existing Audix voice-mail system will be used. What design issues need to be considered so that all users can access their voice mail?

- A. The selection of a codec that will provide excellent call quality and low bandwidth
- B. Transcoders at each branch location
- C. specifying the correct number of inbound Audix ports in the Cisco Unified Communications Manager cluster
- D. The dial plan needs to accommodate calls to the Cisco Unity system
- E. Transcoders at the HO location

**Answer:** E

**QUESTION: 55**

Ajax has recently merged with Jake's Brakes of Tulsa Oklahoma. Jake's Brakes is an organization of 500 employees. The remote sales offices have 84 employees and the remainder are located at the Jake's Brakes headquarters. Jake's converted to a Cisco Unified Communications Manager IP phone system earlier this year. Jake's has deployed Cisco Unified Communications Manager Express at each remote sales office and a small Cisco Unified Communications Manager cluster at the Jake's headquarters. Currently, there are no overlapping extension numbers in the Jake's dial plan and all calls are placed over the PSTN. The system is fully functional and includes Cisco Unity at the headquarters and Cisco Unity Express voice mail at the remote sales offices. They have two T1s to the PSTN and a single T1 to a local service provider for Internet access. A fourth and fifth T1 will connect the Ajax campus to the new Tulsa campus. These two T1s will carry voice and data traffic between Ajax and Jake's. How can the two Cisco Unified Communications Manager clusters be configured so that IP phone calls can be placed between them?

- A. Both clusters require gatekeeper control and the specific gateway to be queried.
- B. Both clusters use H.323 and should be configured as intercluster H.323 devices with gatekeeper control.
- C. Both should be configured as H.323 devices and should be configured as intracenter H.323 devices.
- D. Communication between sites with Cisco Unified Communications Manager clusters requires H.323 and each cluster must be configured as an intercluster H.323 device

**Answer:** A

**QUESTION:** 56

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- A. A route pattern should point to a route group to the IP WAN as the first choice and a second route group to the PSTN as a second choice.
- B. A route group should point to the gateway connected to the H.323 intercluster trunk and also point to a second gateway connected to the PSTN as a second choice.
- C. A route pattern should be configured for the IP WAN and a second route pattern should be configured for the PSTN as a second choice.
- D. A route list should be configured to point at a route group to the IP WAN as the first choice and a route group to the PSTN as the second choice.

**Answer:** A

**QUESTION:** 57

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- A. Both clusters require gatekeeper control and the specific gateway to be queried.
- B. Both clusters use H.323 and should be configured as intercluster H.323 devices with gatekeeper control.
- C. Both should be configured as H.323 devices and should be configured as intracluster H.225 devices.
- D. Communication between sites with Cisco Unified Communications Manager clusters requires H.323 and each cluster must be configured as an intercluster H.323 device

**Answer: B**

**QUESTION: 58**

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- C. A route pattern should be configured for the IP WAN and a second route pattern should be configured for the PSTN as a second choice.
- D. A route list should be configured to point at a route group to the IP WAN as the first choice and a route group to the PSTN as the second choice.

**Answer: D**

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